

**In the Claims:**

1. (currently amended) A method of producing resistant starch comprising:
  - (a) selecting a reaction temperature;
  - (b) acidifying unmodified starch to a pH, wherein said pH is optimum to convert said unmodified starch to resistant starch when at said reaction temperature;
  - (c) heating said acidified unmodified starch to ~~about the~~ said reaction temperature; and
  - (d) maintaining said acidified unmodified starch close to ~~about the~~ said reaction temperature until ~~the~~ a maximum yield of resistant starch has been obtained while maintaining a whiteness level between about 50 and about 100.
2. (original) The method of claim 1, wherein said unmodified starch of step (b) is acidified with chlorine gas or monochloroacetic acid.
3. (original) The method of claim 1, wherein said unmodified starch of step (b) is acidified with aqueous hydrochloric acid.
4. (original) The method of claim 1, wherein said unmodified starch of step (b) is acidified with gaseous hydrochloric acid.
5. (currently amended) The method of claim 1, wherein said optimal pH of ~~the~~ said acidified unmodified starch of step (b) is between about 1 and about 4.
6. (original) The method of claim 1, wherein said optimal pH of acidified unmodified starch of step (b) is between about 2 and about 3.

7. (original) The method of claim 1, wherein said optimal pH of acidified unmodified starch of step (b) is about 2.4.

8. (original) The method of claim 1, wherein said reaction temperature is between about 140°C and about 180°C.

9. (original) The method of claim 1, wherein said reaction temperature is between about 160°C and about 175°C.

10. (original) The method of claim 1, wherein said reaction temperature is about 170°C.

11. (original) The method of claim 1, wherein said whiteness level is between about 60 and about 100.

12. (original) The method of claim 1, wherein said whiteness level is between about 65 and about 100.

13. (currently amended) The method of claim 1, wherein the a moisture content of the said unmodified starch is between about 2% and about 6%.

14. (currently amended) The method of claim 1, wherein the said unmodified starch is acidified before the a moisture content is reduced to between about 2% and about 6%.

15. (original) The method of claim 1, wherein said percentage yield of said resistant starch is greater than about 50%.

16. (currently amended) The method of claim 1, wherein said ~~percentage~~ yield of said resistant starch is greater than about 60%.

17. (original) The method of claim 1, wherein:

said reaction temperature is between about 140°C and about 180°C;

said pH is between about 1 and about 4; and

said whiteness level is between about 65 and about 100.

18. (original) The method of claim 1, wherein:

said reaction temperature is between about 160°C and about 175°C ;

said pH is between about 2 and about 3; and

said whiteness level is between about 65 and about 100.

19. (original) The method of claim 1, wherein:

said reaction temperature is about 170°C;

said pH is about 2.4; and

said whiteness level is between about 65 and about 100.

20. (original) The method of claim 1, wherein:

said starch has a moisture content of about 4% and is acidified with gaseous hydrochloric acid to a pH of about 2.4;

said reaction temperature is about 160°C; and

said whiteness level is between about 65 and about 100.

21. (currently amended) The method of claim 1, wherein ~~the~~ said unmodified starch is derived from corn.

22. (currently amended) The method of claim 1, wherein ~~the~~ said unmodified starch is derived from potatoes, rice, casava, or wheat.

23. (original) The method of claim 1, further comprising:

(e) the manufacture of a food product from said resistant starch.

24. (currently amended) A method of producing resistant starch comprising:

(a) acidifying unmodified starch to a pH and a reaction temperature, wherein said pH is selected relative to said reaction temperature such that said pH may be optimum thereto to convert said unmodified starch to resistant starch when at said reaction temperature;

(b) heating said acidified unmodified starch to ~~about the~~ said reaction temperature; and

(c) maintaining said acidified unmodified starch close to ~~about the~~ said reaction temperature such that ~~the~~ a maximum yield of resistant starch may be obtained while maintaining a whiteness level between about 50 and about 100.

25. (original) The method of claim 24, wherein said pH of said unmodified starch of step (a) is optimum relative to said reaction temperature to convert said unmodified starch to resistant starch when at said reaction temperature.

26. (original) The method of claim 24, wherein said maximum yield of resistant starch of step (c) is obtained while maintaining a whiteness level between about 50 and about 100.

27. (currently amended) A resistant starch formed from a process comprising:

(a) acidifying unmodified starch to a pH and a reaction temperature, wherein said pH is selected relative to said reaction temperature such that said pH may be optimum thereto to convert said unmodified starch to resistant starch when at said reaction temperature;

(b) heating said acidified unmodified starch to ~~about the~~ said reaction temperature; and

(c) maintaining said acidified unmodified starch close to ~~about the~~ said reaction temperature such that ~~the~~ a maximum yield of resistant starch may be obtained while maintaining a whiteness level between about 50 and about 100.